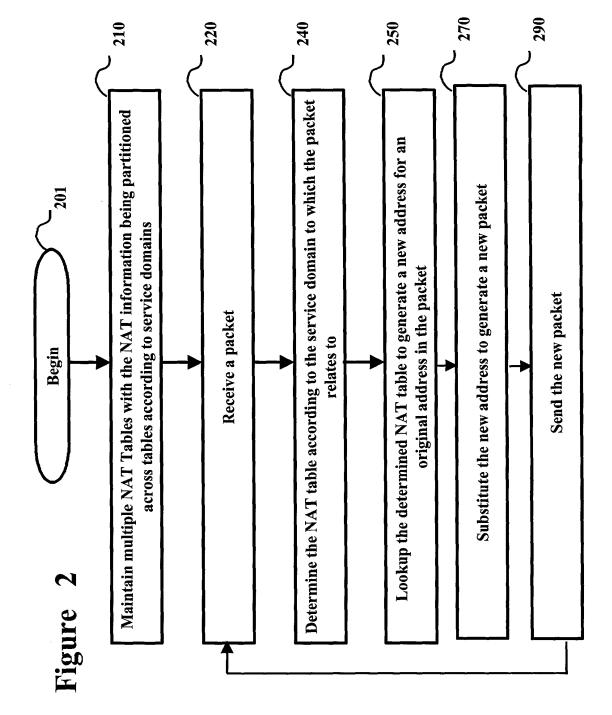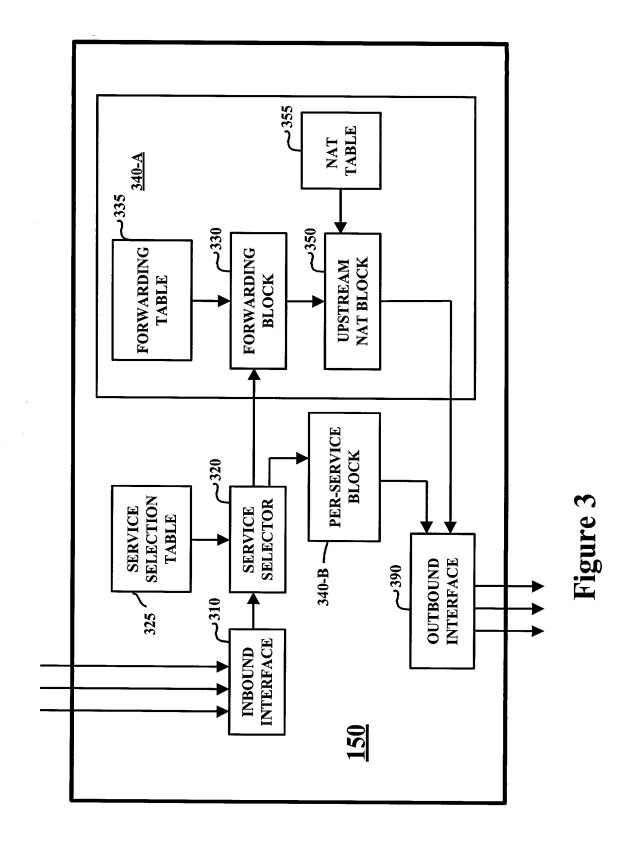Figure 1

UPSTREAM DIRECTION

DOWNSTREAM DIRECTION

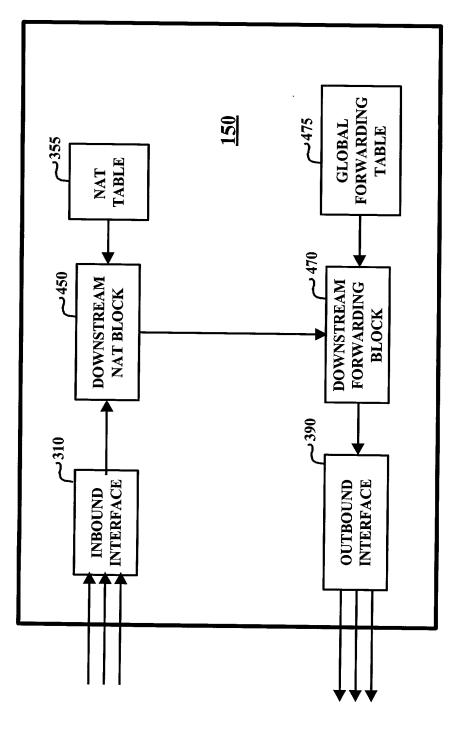# Figure 2

Begin 201

Maintain multiple NAT Tables with the NAT information being partitioned across tables according to service domains 210

Receive a packet 220

Determine the NAT table according to the service domain to which the packet relates to 240

Lookup the determined NAT table to generate a new address for an original address in the packet 250

Substitute the new address to generate a new packet 270

Send the new packet 290

Figure 3

Figure 4

Figure 5